

In the Claims:

1. (Currently Amended) An acetabular reamer, which comprises:
 - a) a cutting shell having a shell curvature extending from an apex to a lower edge and comprising at least a portion of a hemisphere, the cutting shell being rotatable about a longitudinal axis; and
 - b) a plurality of cutting teeth thereon, wherein each cutting tooth comprises two buttress portions extending from the cutting shell and meeting an intermediate cutting edge having a second ~~hemispherical~~ curvature as a line segment of a hemisphere that is greater than the hemispherical curvature of the cutting shell and ~~that is~~ wherein the plurality of cutting teeth are rotatable about the longitudinal axis.
2. (Previously Presented) The reamer of claim 1 wherein a generally circular hole precedes each of the cutting edges as the reamer is rotated for cutting.
3. (Previously Presented) The reamer of claim 1 wherein the cutting teeth are arranged uniformly and spaced apart on the cutting shell.
4. (Previously Presented) The reamer of claim 3 wherein the cutting teeth are arranged in a spiral arrangement on the cutting shell.
5. (Cancelled)

6. (Cancelled)

7. (Previously Presented) The reamer of claim 2 wherein the reamer includes a series of cutting teeth arranged uniformly and spaced apart on the cutting shell.

8. (Previously Presented) The reamer of claim 2 wherein the cutting teeth are arranged in a spiral configuration on the cutting shell.

9. to 14. (Cancelled)

15. (Currently Amended) An acetabular reamer, which comprises:

- a) a cutting shell that is rotatable about a longitudinal axis, wherein the cutting shell extends ~~extending~~ from an apex to a lower edge and ~~having~~ has a curvature defined by a plurality of cutting shell radii of the same length extending from a focal point located on the radius, the cutting shell being rotatable about a longitudinal axis; and
- b) a plurality of cutting teeth thereon, wherein each cutting tooth comprises two buttress portions extending from the cutting shell and meeting an intermediate cutting edge spaced furthest from the cutting shell, the cutting edge being continuously defined from one buttress to the other buttress by a continuum of cutting edge radii that each extend from the same focal point as the plurality of cutting shell radii ~~have a focal point located on the longitudinal axis to thereby define a hemispherical shape.~~

16. (Previously Presented) An acetabular reamer for cutting a hemispherical shape, comprising:

- a) a cutting shell defining a spherical center and carrying a plurality of raised teeth positioned thereon with adjacent openings; and
- b) at least one tooth having an arc cutting edge with a constant radius from the spherical center and two secondary edges supported by gussets which curve toward the shell.